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GLASS COMPOSITION AND ITS PRODUCTION

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Inventor: HOSHINO KOICHI; KANO KOJI; KANAMORI
TERUHISA; SHIMIZU MAKOTO; OISHI YASUTAKE

Applicant: NIPPON TELEGRAPH & TELEPHONE

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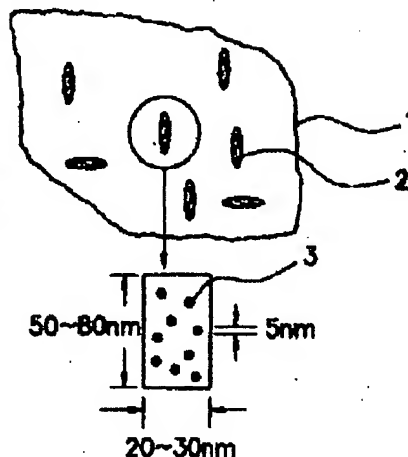
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Abstract of JP2000053442

PROBLEM TO BE SOLVED: To produce a glass compen. having wide-band light emission characteristics and ferromagnetism by which the compen. can be used for a laser or light amplifier having laser oscillation or light amplification action in a considerably wide wavelength range whose median wavelength is in the band of 1.2-1.8 μm important to an optical communication wavelength region and can also be used for a powdery permanent magnet. **SOLUTION:** By using a glass compen. consisting essentially of at least one of SiO_2 or GeO_2 , at least one among Al_2O_3 , Ga_2O_3 or In_2O_3 , ZnO and at least one of TiO_2 or Nb_2O_5 to control glass synthesis and reheating treatment conditions, Ni^{2+} ions as light emitting seeds and fine particles 3 of ferromagnetic metal Ni in the resultant glass are formed.



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